CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NS/W.No.12/2021-22 Date: 05.05.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Nagarajaiah Sunil,** Contractor, Bangalore
NAME OF THE WORK	:	Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore.
SAMPLE ID	:	Cement (Bula OPC 53 Grade)
DATE OF MANUFACTURE		April - 2021
DATE OF TESTING		03.05.2021 to 05.05.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Pooma Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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Job No. CACE/BBMP/NS/W.No.12/2021-22 Date : 05.05.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Nagarajaiah Sunil,** Contractor, Bangalore.

Name of Work : Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore

Date of Testing : 05.05.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	135	13.50	22.40	77.6	75-100
1.18	182	18.20	40.60	59.4	55-90
600 Micron	165	16.50	57.10	42.9	35-59
300 Micron	252	25.20	82.30	17.7	8-30
150 Micron	110	11.00	93.30	6.7	0-10

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Verified

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Job No.: CACE/BBMP/NS/W.No.12/2021-22 Date : 05.05.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Nagarajaiah Sunil,** Contractor, Bangalore.

Name of Work : Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore.

Date of Testing : 05.05.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1958	39.2	91.7	8.3	0-10

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Job No.: CACE/BBMP/NS/W.No.12/2021-22 Date : 05.05.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Nagarajaiah Sunil,** Contractor, Bangalore.

Name of Work : Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore.

Date of Testing : 05.05.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95-100
20	8256	55.04	56.30	43.70	30-70
10	3265	21.77	78.07	21.93	10-35
4.75	2825	18.83	96.90	3.10	0-5

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Job No.: CACE/BBMP/NS/W.No.12/2021-22 Date : 05.05.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Nagarajaiah Sunil,** Contractor, Bangalore.

Name of Work : Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore.

Date of Testing : 05.05.2021

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	89	8.90	13.80	86.2	40-100
300 Micron	245	24.50	38.30	61.7	5-70
150 Micron	489	48.90	87.20	12.8	0-15

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Lab No: CACE/BBMP/NS/W.No.12/2021-22 10.09.2021

TEST REPORT ON CHAIN LINK FENCING WIRE (8th Gauge)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore

Agency : **Sri. Nagarajaiah Sunil,** Contractor, Bangalore.

Name of work : Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore

Samples ID : Samples Supplied By Agency

Sl.No	Description	Result
1	Diameter	4.47 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.468 Kg

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Job No.: CACE/BBMP/NS/W.No.12/2021-22 10.05.2021

TEST REPORT ON STRUCTURAL STEEL

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Nagarajaiah Sunil,** Contractor, Bangalore.

Name of work : Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore.

Samples ID : Samples Supplied By Agency

Specimen Size : ISA-65X65X6mm (1m Length)

Sl.No	Description	Result
1	Thickness	6.16 mm
2	Width	65.8 mm
3	Weight / Meter	5.92 Kg

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Job No.: CACE/BBMP/NS/W.No.12/2021-22 10.05.2021

TEST REPORT ON M.S PIPE (38mm Dia)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Nagarajaiah Sunil,** Contractor, Bangalore.

Name of work : Improvement and Maintenance of Community Property (Park) in Ward No.12, BBMP, Bangalore.

Specimen Size : M.S Pipe 38mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	3.64 mm
2	Inner Diameter	39.6 mm
3	Outer Diameter	48.4 mm
4	Weight / Meter	4.13kg

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